

What is claimed is:

1 1. A mobile communication terminal for performing reception
2 and transmission using an adaptive array method, the mobile
3 communication terminal being provided with (a) a plurality of
4 antennas, (b) reception means for forming a directivity pattern
5 for receiving a desired reception signal and receiving the
6 reception signal using the formed directivity pattern, and (c)
7 transmission means for transmitting a transmission signal using
8 the directivity pattern formed in reception, the mobile
9 communication terminal comprising:

10 detection means for detecting a reception error in the
11 reception signal; and

12 transmission control means for controlling the
13 transmission means when the detection means detects the
14 reception error so that a pattern different from the directivity
15 pattern formed in reception is formed and the transmission
16 signal is transmitted in the formed pattern.

1 2. The mobile communication terminal of Claim 1,
2 wherein when the detection means detects the reception
3 error, the transmission control means controls the transmission
4 means so that the non-directional pattern is formed using one
5 of the plurality of antennas, and the transmission signal is
6 transmitted in the non-directional pattern.

1 3. The mobile communication terminal of Claim 2,

2 wherein when the detection means detects the reception
3 error, the transmission control means controls the transmission
4 means so that the non-directional pattern is formed using one
5 of the plurality of antennas that has the largest antenna gain,
6 and the transmission signal is transmitted in the
7 non-directional pattern.

1 4. The mobile communication terminal of Claim 2 further
2 comprising:

3 selection means for measuring a quality of the reception
4 signal for each of the plurality of antennas and selecting an
5 antenna with the highest reception quality,

6 wherein when the detection means detects the reception
7 error, the transmission control means controls the transmission
8 means so that the non-directional pattern is formed using the
9 antenna selected by the selection means, and the transmission
10 signal is transmitted in the non-directional pattern.

1 5. A communication method used for a mobile communication
2 terminal for performing reception and transmission using an
3 adaptive array method, the mobile communication terminal being
4 provided with (a) a plurality of antennas, (b) reception means
5 for forming a directivity pattern for receiving a desired
6 reception signal and receiving the reception signal using the
7 formed directivity pattern, and (c) transmission means for
8 transmitting a transmission signal using the directivity

9 pattern formed in reception, the mobile communication terminal
10 comprising:

11 detection step for detecting a reception error in the
12 reception signal; and

13 transmission control step for controlling the
14 transmission means when the detection step detects the
15 reception error so that a pattern different from the directivity
16 pattern formed in reception is formed and the transmission
17 signal is transmitted in the formed pattern.

1 6. The communication method of Claim 5,
2 wherein when the detection step detects the reception
3 error, the transmission control step controls the transmission
4 means so that the non-directional pattern is formed using one
5 of the plurality of antennas, and the transmission signal is
6 transmitted in the non-directional pattern.

1 7. The communication method of Claim 6,
2 wherein when the detection step detects the reception
3 error, the transmission control step controls the transmission
4 means so that the non-directional pattern is formed using one
5 of the plurality of antennas that has the largest antenna gain,
6 and the transmission signal is transmitted in the
7 non-directional pattern.

1 8. The communication method of Claim 6 further comprising:
2 selection step for measuring a quality of the reception

3 signal for each of the plurality of antennas and selecting an
4 antenna with the highest reception quality,

5 wherein when the detection step detects the reception
6 error, the transmission control step controls the transmission
7 means so that the non-directional pattern is formed using the
8 antenna selected by the selection step, and the transmission
9 signal is transmitted in the non-directional pattern.

1 9. A program to be executed by a computer in a mobile
2 communication terminal for performing reception and
3 transmission using an adaptive array method, the mobile
4 communication terminal being provided with (a) a plurality of
5 antennas, (b) reception means for forming a directivity pattern
6 for receiving a desired reception signal and receiving the
7 reception signal using the formed directivity pattern, and (c)
8 transmission means for transmitting a transmission signal using
9 the directivity pattern formed in reception, the mobile
10 communication terminal comprising:

11 detection step for detecting a reception error in the
12 reception signal; and

13 transmission control step for controlling the
14 transmission means when the detection step detects the
15 reception error so that a pattern different from the directivity
16 pattern formed in reception is formed and the transmission
17 signal is transmitted in the formed pattern.

1 10. The program of Claim 9,

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2 wherein when the detection step detects the reception
3 error, the transmission control step controls the transmission
4 means so that the non-directional pattern is formed using one
5 of the plurality of antennas, and the transmission signal is
6 transmitted in the non-directional pattern.

1 11. The program of Claim 10,

2 wherein when the detection step detects the reception
3 error, the transmission control step controls the transmission
4 means so that the non-directional pattern is formed using one
5 of the plurality of antennas that has the largest antenna gain,
6 and the transmission signal is transmitted in the
7 non-directional pattern.

1 12. The program of Claim 10 further comprising:

2 selection step for measuring a quality of the reception
3 signal for each of the plurality of antennas and selecting an
4 antenna with the highest reception quality,

5 wherein when the detection step detects the reception
6 error, the transmission control step controls the transmission
7 means so that the non-directional pattern is formed using the
8 antenna selected by the selection step, and the transmission
9 signal is transmitted in the non-directional pattern.

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